

Rabbit anti-Human FPGS Polyclonal Antibody | anti-FPGS antibody

Anti-FPGS Antibody, Rabbit Polyclonal

CATALOG # AAA256973	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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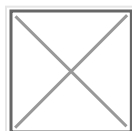
PRODUCT SYNONYMS

FPGS; Polyclonal Antibody; Anti-FPGS Antibody; Rabbit Polyclonal; FPGS Antibody; Rabbit PAb; Antigen Affinity Purified; anti-FPGS antibody

PRODUCT SPECIFICATIONS

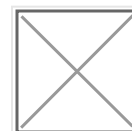
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human FPGS
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-FPGS antibody	IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human FPGS fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human FPGS fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human FPGS in human rectum with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human FPGS in human kidney with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-FPGS antibody	Folypolyglutamate synthase (FPGS), an important enzyme in the folate metabolic pathway, catalyzes the polyglutamation of folates and antifolates, such as methotrexate (MTX), to produce highly active metabolites. FPGS is the key enzyme that converts chemotherapy drug Methotrexate (MTX) into MTXPG. The expression level of FPGS directly influences MTX-sensitivity of tumor cells. FPGS plays a central role in intracellular accumulation of folate and antifolate in several mammalian cell types. Loss of FPGS activity results in decreased cellular levels of antifolates and consequently to polyglutamatable antifolates in acute lymphoblastic leukemia (ALL). Compared with B-cell acute lymphocytic leukemia (B-ALL), T-cell acute lymphocytic leukemia (T-ALL) cells express a lower level of FPGS, which results in insensitivity of the cells to MTX.
References	Piwkham D, et al. (2015) Mutation screening and association study of the folypolyglutamate synthetase (fpgs) gene with susceptibility to childhood acute lymphoblastic leukemia. Asian Pac J Cancer Prev 16 (11): 4727-4732.Liu SG, et al. (2013) Fpgs rs1544105 polymorphism is associated with treatment outcome in pediatric b-cell precursor acute lymphoblastic leukemia. Cancer Cell Int 13 (1): 107.Hu WJ, et al. (2012) [the mbr-fpgs efficient expression plasmid enhances the sensitivity of jurkat cells to methotrexate]. Yi Chuan 34 (6): 705-710.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fpgs-antibody-immunohistochemistry-elisa/256973>